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etry: (1) Three historic problems; (2) "Flatland"; (3) Non-Euclidean geometry; (4) The fourth dimension; (5) The straight line; (6) Curve tracing; (7) The probability curve; (8) Imaginary loci; (9) Optical images; (10) The nine point circle; (11) Circles connected with a triangle; (12) Expressions for the area of a triangle; (13) Proofs of the Pythagorean theorem; (14) The planimeter; (15) Ancient geometry; (16) Modern geometry. (B) *Arithmetic and Algebra*: (17) Mathematical games; (18) The slide rule; (19) Magic squares; (20) Development of arithmetic and algebra; (21) Calculation of  $\pi$  and  $e$ ; (22) Adding and multiplying machines; (23) Mathematical symbolism; (24) Numerical properties of color and sound; (25) Logarithms; (26) Mathematics of insurance and statistics; (27) Fermat's last theorem; (28) Theory of errors; (29) Mathematics of the calendar; (30) Properties of the numbers 9 and 37; (31) Number systems; (32) Remarkable numbers. (C) *Historical and Pedagogical*: (33) Mathematics of the Hindus; (34) Egyptian and Greek mathematics; (35) Mathematics of the Renaissance; (36) Japanese mathematics; (37) The development of trigonometry; (38) The German and French secondary schools; (39) Mathematics in the German universities; (40) Mathematics in American universities; (41) Vocational mathematics; (42) The development of the calculus; (43) Lives of great mathematicians (many subjects available); (44) Controversy between Leibnitz and Newton; (45) Definitions in mathematics; (46) "A Budget of Paradoxes," De Morgan; (47) Mathematical periodicals; (48) Zeno's arguments; (49) Opportunities for the study of graduate mathematics; (50) Why study mathematics?

Another series of topics is in preparation for publication and this is to contain references to the literature which may be helpful to clubs making use of the topics.

#### NOTES ON THE ASSOCIATION.

The membership of the Association grows with interesting speed. Since the Charter Membership list was completed on April 1, 1916, there have been added in September, 1916, 13 individual members and 8 institutional members; in December, 1916, 15 individual members and 16 institutional members; in February, 1917, 13 individual members and one institutional member; in April, 1917, 22 individual members and one institutional member. Thus the total additions to the Charter list are 63 individual and 26 institutional members. The names, hitherto unpublished, which were voted on by the Council in April, are as follows:

Kansas State Agricultural College to institutional membership.

Samuel Beatty, Lecturer, University of Toronto, Toronto, Can.

Sister Brigetta, Instructor in mathematics, College of St. Scholastica, Duluth, Minn.

H. N. Carleton, West Newbury, Mass.

Chancellor A. B. Chace, Brown University, Providence, R. I.

H. T. Davis, Instructor in mathematics, High School, Colorado Springs, Colo.

Dr. William S. Dennett, New York, N. Y.

Tomlinson Fort, Professor of mathematics, University of Alabama, University, Ala.

Mary E. Helwig, Instructor in mathematics, High School, Kansas City, Kansas.

Glenn James, Instructor in mathematics, Purdue University, West LaFayette, Ind.

H. P. Kean, Professor of mathematics, McKendree College, Lebanon, Ill.

C. H. Lehmann, Student, Cooper Union, New York, N. Y.

J. S. Mikesch, Director, Junior College, Hibbing, Minn.

O. J. Ramler, Instructor in mathematics, Catholic University of America, Washington, D. C.

W. H. Rittenhouse, M.E., Philadelphia, Pa.

S. T. Sanders, Assistant Professor of mathematics, Louisiana State University, Baton Rouge, La.

W. G. Simon, Graduate student, University of Chicago, Chicago, Ill.

C. E. Smith, Professor of mathematics and science, Northland College, Ashland, Wis.

G. T. Street, Instructor in mathematics, Denison University, Granville, Ohio.

H. R. Tolley, Scientific assistant, Office of Farm Management, U. S. Department of Agriculture, Washington, D. C.

T. E. Trott, Professor of mathematics, Mt. Union College, Alliance, Ohio.

J. K. Whittemore, Instructor in mathematics, Sheffield Scientific School, Yale University, New Haven, Conn.

E. H. Worthington, Instructor in mathematics, University of Pennsylvania, Philadelphia, Pa.

The Committee on Libraries, of which Professor W. B. Ford is chairman, has made good progress and will be able to report very soon, possibly in time for the June issue, certainly for the September issue.

The Committee on Fortschritte and Revue Semestrielle, of which Professor E. V. Huntington is chairman, has been able to make very little progress. The only information the committee has been able to gather comes from a London bookdealer, who stated on April 12, 1917, that he had been advised that numbers 1 and 2 of volume 24 of the Revue Semestrielle had appeared. Number 1 of volume 25 has not been issued so far as is now known.

The Program Committee and the Committee on Arrangements for the Summer meeting in Cleveland on September 7 and 8 will make preliminary reports for publication in the June MONTHLY, which will be mailed to members during the last week in June. The June issue will be the last to appear previous to the meeting. The final announcements will be mailed about the middle of August under second-class postage to the addresses of members on the MONTHLY mailing list, unless the Secretary is advised of changes of addresses prior to that time.

The Kentucky Section of the Mathematical Association of America has been organized. The teachers of higher mathematics in Kentucky have maintained a local state organization for nine years; this organization now becomes a part of the larger Association, having been an early applicant for admission as a section. Professor E. L. REES, of the University of Kentucky, is secretary of the section. The spring meeting of the section was held on May 11, 1917, at Berea, Ky.

The Rocky Mountain Section of the Association has been organized and will include the states of Colorado and Wyoming. The first meeting was held on April 7, 1917, and will be reported in the June issue. There are now nine sections of the Association, namely, in Kansas, Ohio, Missouri, Iowa, Indiana, Kentucky, Minnesota, Maryland, Virginia, District of Columbia, and Colorado-Wyoming. Many of the sections hold meetings twice a year. Two spring meetings of sections are reported in this issue, and four more will be reported in the June issue.

The editors of the *Annals of Mathematics* report a most gratifying response to the circular sent out by the Association in March announcing the enlargement of the *Annals* for 1917-1918, and asking for subscriptions on the new basis of cooperation between the *Annals* and the Association. Over three hundred and thirty new subscriptions had been received when this was written, aside from sixty or seventy requests for sample copies of the issue containing Professor Dickson's article on the Fermat Theorem. The new volume of the *Annals* on the enlarged basis begins in October, 1917, and subscriptions from members of the Association at the one-half rate (\$1.50) may be sent at any time to the Editors at Princeton, New Jersey. Payment may be deferred, if desired, until October first. This opportunity is open to new members of the Association whenever they may join.

The Secretary and Managing Editor have just made up a shipment of several boxes of books and journals to the library of the Association, which is at present to be housed in a private alcove of the library of Oberlin College, where it will be under the supervision of the Secretary and will be catalogued and cared for by the library staff of Oberlin College. The journals comprise the exchange list of the MONTHLY, which is already well extended and is slowly growing, together with certain sets of journals extending back varying periods which have been contributed by the Managing Editor. These include the *Bulletin of the American Mathematical Society*, *School Science and Mathematics*, *The Mathematics Teacher*, and *Science*. It is hoped that these and other partial sets may be completed. A list of copies or volumes wanted will be published as soon as an inventory can be made of those in hand. The complete set of the MONTHLY contributed jointly by Professors E. H. MOORE and H. E. SLAUGHT has now been bound and deposited in the library.

The number of books is not yet extensive, but it is hoped that all publishers

in this country who print college and university mathematical books will be interested to contribute copies to the library. In order to insure proper credit to all such donors the Secretary has prepared a suitable printed label to be attached to the inside front cover of all books contributed. These will be supplied to publishers, to authors, or to any members or friends of the Association who may wish to become donors. All such contributions may be sent to The Mathematical Association of America in care of the Oberlin College Library, Oberlin, Ohio.

In particular, any persons who may have back numbers or volumes of the MONTHLY, especially back of 1910, are requested to send an inventory of the same to the Secretary. He is continually asked to supply missing copies for those who are making up sets, and he will pay cash for these whenever they can be resold.

#### SPECIAL ANNOUNCEMENT.

The MATHEMATICAL ASSOCIATION of AMERICA invites all members who have constructive ideas upon the topic: "The treatment of the applications in college courses in mathematics," to submit brief papers on that subject before June 15. All papers will be passed upon by the program committee and a suitable selection will be made for presentation at the summer meeting. This is a subject that should arouse much interest. Address all communications to the Chairman of the Committee, Professor C. S. Slichter, University of Wisconsin, Madison, Wis.

The following from The New Era Printing Company explains the delay of the April issue:

"The delay was caused by the slow freights. We had exhausted the supply of cover paper, and while an order had been placed in ample time and we received the bill of lading on the 9th of April, the paper did not reach us until the last of the month. We regret the delay which was unavoidable."